

PART 3A AMDT

- 9 -

The claims

1. A lamp including a plurality of semi-conductor light emitting junctions with a common layer of fluorescent material arranged thereover, wherein the junctions are provided in a three-dimensional array.

5

2. A lamp including a plurality of semi-conductor light emitting junctions with a common layer of fluorescent material arranged thereover, wherein the junctions are mounted to a curved support structure so as to be arranged substantially on an imaginary spheroid surface.

10

3. A lamp as claimed in claim 1 or 2, wherein the lamp includes a globe portion and the junctions are embedded within the globe portion so that the lamp is formed as a unitary structure.

15

4. A lamp as claimed in any one of claims 1 to 3, wherein the junctions are mounted to, and electrically coupled with, at least one curved conductor.

20

5. A lamp including a plurality of light emitting junctions mounted to at least one curved conductor so as to adopt a three-dimensional array, wherein the lamp includes a common layer of fluorescent material over at least adjacent junctions.

25

6. A lamp including a plurality of light emitting junctions mounted to at least one curved conductor so as to adopt a three-dimensional array, wherein the at least one curved conductor includes a recess for receipt of a respective one of the junctions.

7.

A lamp as claimed in claim 6, wherein the at least one curved conductor is configured such that junctions are arranged substantially on an imaginary spheroid surface.

30

8. A lamp as claimed in claim 6 or 7, wherein the recess has side walls which function as an optical guide for controlling the direction of light transmission and/or the angle of divergence.

ART 34 AMDT

- 10 -

9. A lamp as claimed in any one of claims 5 to 8, wherein the lamp includes a globe portion, with the junctions and the at least one curved conductor being embedded within the globe portion so that the lamp is formed as a unitary structure.

5

10. A lamp as claimed in claim 9, wherein the lamp includes a lens adapted to fit with the globe portion, and configured to shape the light emitted from the globe portion into a predetermined pattern.